

# KENWOOD

Listen to the Future



## TK-2200/3200

Compact VHF/UHF FM Portable Radios

**FleetSync®**  
by KENWOOD

### GENERAL FEATURES

- 2 W (150-174 MHz) VHF
- 2 W (450-470 MHz) UHF
- 2 & 8 Channel Models
- Single Priority / Normal Scan
- Transmit / Busy / Call Alert / Scan / Warn LED
- 2 PF Keys
- Super Lock (Manager Key Lock)
- 500 mW Speaker Audio
- Enhanced Kenwood Audio
- Companded Audio
- Voice Annunciation
- VOX Ready
- Voice Inversion Scrambler Built-in
- QT / DQT
- DTMF Encode / Decode<sup>1</sup>
- 8 Call Alerting Tones<sup>2</sup>

- Time Out Timer
- Busy Channel Lockout
- Low Battery Warning
- Battery Saver
- Windows® Programming & Tuning<sup>3</sup>
- Wireless Cloning
- MIL-STD-810 C/D/E/F
- IP-54/55 Water & Dust Intrusion

### FleetSync®

- PTT ID Digital ANI
- Selective Call<sup>4</sup>

### ACCESSORIES INCLUDED

- KNB-29N Ni-MH Battery
- KSC-31 3-Hour Fast Charger
- KBH-10 Spring Action Belt Clip
- Removable Antenna



## Options

<b>■ KNB-29N</b> Ni-MH Battery Pack (1,500mAh)	<b>■ KRA-16</b> VHF Stubby Antenna	<b>■ KHS-7A</b> Single Muff Headset with In-line PTT	<b>■ HMC-3</b> Headset with PTT Built-in Vox
<b>■ KSC-31</b> Fast Charger (3-Hour)	<b>■ KRA-17</b> UHF Stubby Antenna	<b>■ KHS-8BL</b> 2-wire Palm Mic with Earphone (Black)	<b>■ KHS-23</b> 2-wire Palm Mic
<b>■ KRA-22</b> VHF Low Profile Helical Antenna	<b>■ KMC-17</b> Speaker Microphone	<b>■ KHS-8BE</b> 2-wire Palm Mic with Earphone (Beige)	<b>■ KMB-25</b> Six Unit Charger Adapter (for six KSC-31 chargers; chargers not included)
<b>■ KRA-23</b> UHF Low Profile Helical Antenna	<b>■ KMC-21</b> Compact Speaker Microphone	<b>■ KHS-22</b> Behind-the-head Headset with PTT	<b>■ KBH-10</b> Belt Clip
<b>■ KRA-26</b> VHF Helical Antenna	<b>■ KEP-2</b> Earphone Kit for KMC-17/21 (2.5mm plug)	<b>■ EMC-3</b> Clip Microphone with Earphone	<b>■ KWR-1</b> Water Resistance Bag
<b>■ KRA-27</b> UHF Whip Antenna	<b>■ KHS-7</b> Single Muff Headset		<b>■ KLH-126</b> Nylon Case

All accessories and options may not be available in all markets.  
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

## Specifications

Model	TK-2200 VHF	TK-3200 UHF
<b>GENERAL</b>		
Frequency Range	150-174 MHz	450-470 MHz
Number of Channels		
K Type		2
K2 Type		8
Channel Spacing		
Wide/Narrow	25, 30kHz/12.5, 15kHz	25kHz/12.5kHz
Channel Step	2.5, 5, 6.25, 7.5kHz	5, 6.25kHz
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle)		
with KNB-29N (1500mAh)	14 hours (Battery Saver Off) 18 hours (Battery Saver On)	
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C)	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread	24MHz	20MHz
Dimensions (W x H x D), Projections not included		
Radio Only	2.13" x 4.8" x 0.83" (54 x 122 x 21.1mm)	
with KNB-29N	2.13" x 4.8" x 1.30" (54 x 122 x 33mm)	
Weight (net)		
Radio Only	5.6oz (160g)	
with KNB-29N	12.7oz (360g)	
FCC ID	ALH36913120	ALH36923130
FCC Compliance	Parts 22/74/90	Parts 90/95

Model	TK-2200 VHF	TK-3200 UHF
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70dB/60dB	
Intermodulation Distortion		
Wide/Narrow	65dB/60dB	
Spurious Response	65dB	60dB
Audio Output	500mW with less than 10% distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output		
High/Low	2W/1W	2W/1W
Spurious Response	65dB	
Modulation		
Wide/Narrow	16KØF3E/11KØF3E	
FM Noise		
Wide/Narrow	45/40dB	
Audio Distortion	Less than 5%	

Kenwood follows a policy of continuous advancement in development.  
For this reason specifications may be changed without notice.

FleetSync® is a registered trademark of Kenwood Corporation.  
All other trademarks are property of their respective owners.

## Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
<b>International Protection Standard</b>				
Dust & Water Protection	IP54/55			

\*To meet MIL 810 and IP grade, the 2-pin connector cover has to be connected.

Footnotes from front:

- DTMF Encode: PTT ID, Auto-Dial (8 numbers); DTMF Decode: Code Squeech (3-10 digit), Group Codes A, B, C, D & Wild Card characters) and radio Stun.
- Call Alerting Tones: operates for DTMF & FleetSync selective call decode only (8 factory pre-set ring patterns).
- KPG-88D required: Windows® 98/ 2000/ Me/XP compatible; programs TK-2200/3200 ProTalk® models.
- ID List capacity: 8 ID's.

ADS#26805 Printed in USA

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